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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/967,126	,126 09/28/2001		Victor Key Pecone	4430-29	4944
22442	7590	08/09/2005		EXAM	INER
SHERIDA 1560 BRO		PC	VO, TIM T		
SUITE 1200		ART UNIT	PAPER NUMBER		
DENVER,	DENVER, CO 80202			2112	
				DATE MAILED: 08/09/2009	ς .

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	09/967,126	PECONE, VICTOR KEY			
Office Action Summary	Examiner	Art Unit			
The MAN INO DATE ASSISTANCE OF	Tim T. Vo	2112			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH: e, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 17 M	1ay 2005.				
	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-22 is/are pending in the application	l.				
4a) Of the above claim(s) is/are withdra					
5)⊠ Claim(s) <u>1-10</u> is/are allowed.					
6)⊠ Claim(s) <u>11-22</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8)☐ Claim(s) are subject to restriction and/c	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by	the Examiner.			
Applicant may not request that any objection to the		• •			
Replacement drawing sheet(s) including the correct		• •			
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached O	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
 Certified copies of the priority document 	s have been received.				
2. Certified copies of the priority document					
3. Copies of the certified copies of the prior		ceived in this National Stage			
application from the International Burea	• • • • • • • • • • • • • • • • • • • •				
* See the attached detailed Office action for a list	of the certified copies not rec	ceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Sum	nmary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	fail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/9/05;5/25/05;6/10/05	6) Other:	mal Patent Application (PTO-152)			
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	ction Summary	Part of Paper No./Mail Date 20050803			

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Part III DETAILED ACTION

Notice to Applicant(s)

This application has been examined. Claims 1-22 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11-17 are rejected under 35 U.S.C. § **102(b)** as being anticipated by Smith patent number 5,590,377 referred hereinafter "Smith".

As for claim 11, Smith teaches a method for sharing data between a first controller memory module and a second controller memory module (see figure 2, DMA 215-280), comprising: providing a first shared path in a first channel interface module (see figure 2, primary PCI bus 240, secondary PCI bus 262), wherein the shared path has a switchable component for determining which data is to be routed over the shared path (see figure 2, primary PCI bus 240, secondary bus 262, bridge 260 and column 8 lines 20-30, wherein the central DMA 215 determining which channel and routes selected data such as: base address, count data and data to be stored in the mode register. The central DMA 215 then selects the channel number and routes these

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selected data via the primary PCI bus 240, secondary PCI bus 262 to the slave DMA 280); a direct memory access engine for each of said first and second controller memory modules (see figure 2, DMA 215-280); and transferring first data between said first controller memory module and said second controller memory module using said direct memory access engine for at least one of the first and second controller memory modules, wherein the switchable component provides passage of the first data over the first shared path between the first and second controller memory modules (see figure 2, DMA 215-280 and see figure 2, primary PCI bus 240, secondary bus 262, bridge 260 and column 8 lines 20-30, wherein the central DMA 215 determining which channel and routes selected data such as: base address, count data and data to be stored in the mode register. The central DMA 215 then selects the channel number and routes these selected data via the primary PCI bus 240, secondary PCI bus 262 to the slave DMA 280).

As for claims 12, 15 and 18-20, Smith teaches providing a second shared path in a second channel interface module (see figure 2, DMA 215, 280, 298); and transferring second data between said first controller memory module and said second controller memory module using each of said direct memory access engines, wherein the second data passes through said second shared path (see figure 2, bus 216, DMA 212-213).

As for claims 13, 16-17 and 22, Smith teaches connecting said first and second channel interface modules and said first and second controller memory modules to a passive backplane (see figure 2).

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As for claims 14 and 21, Smith teaches an apparatus for sharing data between a first controller memory module and a second controller memory module, comprising: at least a first channel interface module having a first shared path (see figure 2, bus 240, 262), wherein the shared path has a switchable component, operably associated therewith, for selecting which data is to be routed on the shared path (see figure 2, DMA 215-280 and see figure 2, primary PCI bus 240, secondary bus 262, bridge 260 and column 8 lines 20-30, wherein the central DMA 215 determining which channel and routes selected data such as: base address, count data and data to be stored in the mode register. The central DMA 215 then selects the channel number and routes these selected data via the primary PCI bus 240, secondary PCI bus 262 to the slave DMA 280);

a first controller memory module including a first direct memory access engine (see figure 2, DMA 215); a second controller memory module including a second direct memory access engine (see figure 2, DMA 280); and a communications interface to permit direct communications between said first and second controller memory modules (see figure 2, bus 240, 262); wherein data is transferred between said first and second controller memory modules using at least one of said first and second direct memory access engines and the switchable component of said first shared path (see figure 2, DMA 215-280 and see figure 2, primary PCI bus 240, secondary bus 262, bridge 260 and column 8 lines 20-30, wherein the central DMA 215 determining which channel and routes selected data such as: base address, count data and data to be stored in the mode register. The central DMA 215 then selects the channel number and routes these selected data via the primary PCI bus 240, secondary PCI bus 262 to the slave DMA 280).

Allowable Subject Matter

Claims 1-10 are allowable over the prior of records.

Examiner's Statement of Reasons for Allowance

The following is an Examiner's statement of reasons for the indication of allowable subject matter: Claims 1-10 are allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts. As for claim 1, prior art fails to teach at least first and second channel interface modules, connected to the passive backplane, that communicate with the channel interface modules via the passive backplane, and that store and process the storage transferred to and from the channel modules. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 571-272-3642. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3672. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/3/05

Tim T. Vo Primary Examiner Art Unit 2112